

Figure 1

Gai . . . . . MKRD HHHHHQKKT MMNNEEDDGN GMDELLAVLG YKVRSSDMAD VAOKLEOLEV 54  
 0803 EAGGSSGGGS SADMGSCKDK VMAGAXGEEE XVDELLAALG YKVRSSDMAD VAOKLEOLEM 60  
  
 Gai MWSNVQEDDL S QLATETVHY NPAELYTWLD  
 0803 AMGMGGVTPP A QRM TGSCRT WPRTKFI . .

Figure 2a

CCCCGACGGTCGCGGGCCGCGGCCAACGCGACGCCCCGCGCTGCCGGTCGTCGTGG  
TCGACACGCAGGAGGCCGGGATTCTGGCTGGTGCACGCGCTGCTGGCGTGCGCGG  
AGGCCGTGCAGCAGGAGAACCTCTCCGCCGCGGAGGCGCTGGTGAAGCAGATAC  
CCTTGCTGGCCGCGTCCCAGGGCGGCGCGATGCGCAAGGTCGCCGCTACTTCGG  
CGAGGCCCTCGCCCCGCGCGTCTTCCGCTTCCGCCCGCAGCCGGACAGCTCCCTC  
CTCGACGCCGCTTCGCCGACCTCCTCCACGCGCACTTCTACGAGTCCTGCCCTA  
CCTCAAGTTCGCGCACTTCACCGCCAACCAGGCCATCCTGGAGGCGTTCGCCGGC  
TGCCGCCGCGTGCACGTCGTCGACTTCGGCATCAAGCAGGGGATGCAGTGGCCC  
GCACTTCTCCAGGCCCTCGCCCTCCGTCCCGGCGGCCCTCCCTCGTTCCGCCTCAC  
CGGCGTCGGCCCCCGCAGCCGGACGAGACCGACGCCCTGCAGCAGGTGGGCTG  
GAAGCTCGCCCAGTTCGCGCACACCATCCGCGTCGACTTCCAGTACCGCGGCC  
TCGTCGCCGCCACGCTCGCGGACCTGGAGCCGTTTCATGCTGCAGCCGGAGGGCG  
AGGAGGACCCGAACGAAGANCCCGANGTAATCGCCGTCAACTCAGTCTTCGAGA  
TGCACCGGCTGCTCGCGCAGCCCGGCGCCCTGGAAGGTTCTTGGGCACCGTGC  
GCCCCCGTGCGGCCCAGAATTCTACCGTGGTGGAAACAGGAGGCAAATCACA  
ACTCCGGCACATTCTGGACCGCTTCACCGAGTCTCTGCACTACTACTCCACCAT  
GTTTCGATTCCCTCGAGGGCGGCAGCTCCGGCGGCGGCCCATCCGAAGTCTCATCG  
GGGGCTGCTGCTGCTCCTGCCGCCGCGGCACGGACCAGGTTCATNTCCGAGGTGT  
ACCTCGGCCCGGCAGATCTGCAACGTGGTGGCCTGCGAGGGGGCGGAACGCACAG  
ANCGCCACGAGACGCTGGGCCAGTGGCGGAACCGGCTGGGCAACGCCGGGTTCG  
AGACCGTCCACCTGGGCTCCAATGCCTACAAGCAGGCGANACGCTGCTGGCGC  
TCTTCGCCGGCGGCGGAACGGCTACANGTGGAAGAAAAGGAAGGCTGCCTGACGC  
TGGGGTTGCACACNCCCCCTGATTGCCACCTCGGCATGGCGCCTGGCCGGGCCG  
TGATCTCGCGAGTTTTGAACGCTGTAAGTACACATCGTGAGCATGGAGGACAACA  
CAGCCCCGGCGGCCGCCCGGCTCTCCGGCGAACGCACGCACGCACGCACTTGA  
AGAAGAAGAAGCTAAATGTCATGTCAGTGAGCGCTGAATTGCAGCGACCGGCTA  
CGATCGATCGGGCTACGGGTGGTTCCGTCCGTCTGGCGTGAAGAGGTGGATGGA  
CGACGAACTCCGAGCCGACCACCACCGGCATGTAGTAATGTAATCCCTTCTTCGT  
TCCCAGTTCTCCACCGCCTCCATGATCACCCGTAAACTCCTAAGCCCTATTATTA  
CTACTATTATGTTTAAATGTCTATTATTGCTATGTGTAATTCCTCCAACCGCTCAT  
ATCAAAATAAGCACGGGCCGGAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAA  
AAAAAA

09485529-030100

Figure 2b(1)

CGCGCAATGCTTAAGGTCNCCGCCTACTTCGGNGCAGGCCCTCGCCCCGCCGCGTC  
TTCCGCTTCCGCCCCGACGCCGACAGCTCCCTCCTCGACGCCGCTTCGCCGACCT  
CCTCCACGCGCACTTCTACNAGTCCTGCCCCCTACCTCAAGTTCGCGCACTTCACCG  
CCAATTAGGCCATCCTGGAGGCGTTCGCCGGCTGCCGCCGCGTGCACGTCGTCGA  
CTTCGGCATCAAGCAGGGGATGCAGTGGCCCCGCACTTCTCCAGGCCCTCGCCCTC  
CGTCCCGGCGGCCCTCCCTCGTTCCGCCTCACCGGCGTCGGCCCCCGCAGCCGG

Figure 2b(2)

ACCTCCTTCGTCGTCTNTNNGGTGGGGGCGCCAGGAGCTTATGTGGTGGAGGNTG  
GCCCCNCCGGTCGCGACCGCGNCCTACGNGACGCCCGCGCTGCCGGTCGTCGTGG  
TCGACACGCAGGAGGCCGGGATTCGGNTGGTNCACGCGCTGCTGGNGTGCNGG  
AGNCCGTGCAGCAGGAGAACCTCTCCGCCGCGGAGGCGCTNGTGAAGNAGATAC  
CCNTGCTGGCCGAGTCCCAGGGGCGGCGAGATGNGCAAGGTNGCAGCTTACTTNG  
NAGANGCCCTCGCCCGCNGAGTGATTCCACTTANCGCCTGCAGCCGGANAGCTCC  
GTCCTCGAANCCGCNTTNGCCGACCTCCTCCACGNGCACNTNTACGAGTC

Figure 2b(3)

TANTAGTCTCTCGGTGGGGGCGCCAGGAGCTCTNTGGTGGAGGCNCCCCGCCG  
GTCGCGGCCGCGGCCAACGCGACGCCCGCGCTGCCGGTCGTCGTGGTCGACACG  
CAGGAGGCCGGGATTCGGATGGTGCACGCGCTGNTGGCGTGCGCGGAGGCCGTG  
AAACAGTTGAAGGNCCNCGCCTNNNNNCNCACAANNTGAAAGCCCCGNG

Figure 2b(4)

GGCTNCCNCCNCGTGACGTCGTCGACTTCGGCATCAAGCATGGGATGCANTGGC  
NCGNACTTCTCCANGCCCTCGCCCTCCGTCCCGGCGGCCCTCCCTCGTTCCGCCTC  
ACCGGCGTCGGCCCCCGCAGCCGGACGAGACCGACGCCCTGCANCAGGTGGGC  
TGGAAGCTCGCCAGTTCGCGCACACCATCCGCGTCGACTTCCANTACCGTGGCC  
TCGTCGCCGCCACGCTCGCGGACCTGGAGCCGTTTCATGCTGCANCCGGAGGGCGA  
GGAGGACCCGAACGACGGAGCCCGAGGTAATCGCCGTCAACTCAGTCTTCGAGA  
TGCACCGGGCTGCTCNCGCANCCCGGCGACNCTGGAANAA

Figure 2b(5)

CAAGANGCTAATCACAACCTCCGGGCACATTCCTGGACCGCTTCACCGAGTCTCTGC  
ANTACTACTCCACCATGTTTCGATTCCCTCGAGGGCGGCAGCTCCGGCGGGCGGCCC  
ATCCGAAGTCTCATCGGGGGGCTGCTGCTGCTCCTGCCGCCGCCGGGCACGGACCAT  
GTCATGTCCGAXGTGTACCTCGGGCCGGCAGATCTGCAACGTGGTGGCCTGCGAGG  
GGGCGGAGCGCACANTANCGCCACGCAGACNCTGGGCCAGTGGCGTGAACCGGC  
TGGGCAACGCCNGGTTCAANNNNCCGTCCACCTGGGCTCCAATGCCTACAATCAN  
GCNNNCACGCTGCTGGCGCCTCTTCGCCC

Figure 2b(6)

TCGCCANTCGGCATGGNGCCTGGCCGGGGCCGTGATCTCGCGAGTTTTGAACGCTG  
TAAGTACACATCGTGAGCATGGAGGACAACACAGCCCCGGCGGGCCCGCCCGGCT  
CTCCGGCGAACGCACGCACGCACGCACTTGGAAGAAGAANAAGCTAAATGTCAT  
GTCAGTGAGCGCTGAATTGCAACGACCGGCTACGATCGATCGGGCTACGGGTGG  
TTCCGTCCGTCTGGCGTGAAGAGGTGGATGGACGACGAACCTCCGANCCGACCAC  
CACCGGCATGTAGTAATGTAATCCCTTCTTCGTTCCCAGTTCTCCACCGCCTCCAT  
GGATCACCCGTAAAACTCCTAAGCCCTAATTATNNACTAACTAATTATGTTTTAA  
AATGTTCTAATTAATTGGCTATGTTGTAATNCCTCCAAACCGGCTCATTTTCAA  
NATTAAGCCACGGGCCCCGGAACCTTTGGTTTAACAACCTCCCNATTGNAAAATTNA  
AATNGAAATTTTTGGTTNC

Figure 2b(7)

GTTGGTGGNGGCGATTTGGGTACAAGGTGCGCGCCTCCGACATGGNGGANGTGG  
GGCAGAAGCTGGAGCAGNTCGAGATGGCCATGGGGATGGGNNGCGTGGGCGCT  
GGCGCCGCCCTGACGACAGGTTNGCCACCCGCGNGGCCGCGGACACNGTGCANT  
ACAACCCACACNGACNTGTCGTCTTGGGTGCGAGAGCATGCTGTGCGGAGCTAAANG  
AGCCGCGNGCCGCCCTCCCGCCCCGCCCCGCGAGCTCAACGCCTCCACCTCCTCCAC  
CGTCACGGGCAGCGGCGGCTACTTCGATAACCCTCCCTG

Figure 2b(8)

TGATGGNGGGAGNTTANGGGTTANAAATGTGGGGGANTTCCGAANNNGGTGAGG  
ANATATNNTCAGAAAGTTGGAGCAGATGAGAGATNGCTGATGGGGATAGGGTAGG  
NGTGGGTGCCGGTGCNGCCCCCNAGGANAGATTGGCCACCCACTTAGCAAGTGG  
ANACCGTGGATTACNACCCACACAGACCTGTCGTGGTTGGGTTTGAGAGCGTGGTG  
TGGGAGCTGAACGGGCGNGCGGCGTGCCCCCTCCCGCCCCGCCCGCAGCTCAACGCC  
TCCACCTCCTCCACCGTACACGGGCAGCGGCGGCTAGTTCGATCTCCCGCCCTCC  
GTCGACTCCTCCAGCAGCATNTANGCGCTGCGGCGGATCCCTNCCCAAGCNNGC  
GNNGNCCGAGCCGTGTAN

# DISEASE

6/22

Figure 2b(12)

CGGCGGCCCCGTGGCGGCATGGGCTCGTCCGAGGACNAGATGATGGTGTCTGGCG  
GCGGCGGGGGANGGGGATGATGTGGACTATCTGCTGGCGGCGCTCGGGTACAAG  
GTGCGCGCCTCCGACAGGCGGAGCCCGCGCATAACTGGAGCCGCTCGAGATGGC  
CNTGGGGATNGGCGGCNTGGGCNCCNGCGCCTCCCCCG

Figure 2b(13)

TGGNGCTCGGGTGNCCCCGTGCGCGCCTCCGACATGGCGGGACGTGGCGCAGAAC  
TGGAGCAGCTCGAGATGGCCATGGGGATGGGCGGCGTGGGCGCCGGCGCCGCCC  
CCGACGACAGCTTCGCCACCCACCTCGCCACGGACACCGGCACACAACCCACCG  
ACCTGTCGTCTTGGGTCTGAGAGCATGCTGTCGGATCTCNACGCGCCNCCGNCGCC  
CCTCCCGCCCCG

0010E0 62558460

7/22

Figure 2c(1)

ANNTTGTNCNNNNNTACATCCCATGNGCCGCGCNATGCTNAAGGTCGCCGCCTACT  
TCGGCGCAGGCCCTCGCCCGCCGCGTCTTCCGCTTCCGCCCGCAGCCGGACAGCT  
CCCTCCTCGACGCCGCCTTCGCCGACCTCCTCCACGCGCACTTCTACGAGTCCTGC  
CCCTACCTCAAGTTCGCGCACTTCACCGCCAACCAGGCCATCCTGGAGGGCGTTTCG  
CCGGCTGCCGCCGCGTGCACGTCGTCGACTTCGGCATCAAGCAGGGGATGCAGT  
GGCCCGCACTTCTCCAGGCCCTCGCCCTCCGTCCCGGCGGCCCTCCCTCGTTCCGC  
CTCACCGGCGTTTCGGCCCCCGCAGCCGGACGANAACGACGCCCTG

Figure 2c(2)

NTTCCCCGGCAGTTAAAAGCNTCCACTTCTTCCACCGTCACGGGCAGCGGCGGNT  
ACTTNGATCTCCCGCCCTCAGTCGACTCCTCCAGCAGCATCTACGCGCTGCGGCC  
GATCCCCTCCCCGGCCGGCGCGACGGCGCCGGCCGACCTGTCCGCCGACTCCGTG  
CGGGATCCCAAGCGGATGCGCACTGGCGGGAGCAGCACCTCGTCGTCATCCTCCT  
CATANTCGTCTCTCGGTGGGGGCGCCAGGAGCTCTGTGGTGGAGGCNGCCCCGCC  
GGTCGCGGCCGCGGCCAACGCGACGCCCGCGCTGCCGGTCGTCGTGGTTCGACAC  
GCAGGAGGCCGGGATTTCGGATGGTGCACGCGCTGNTGGCGTGCGCGGAGGCCGT  
GNAAGCAGTTNGAAGGGCCTNCGCCGTGNATNNCGCAACAANNNGGAAGNCCN

Figure 2c(3)

CANCCCGCTGNTCGCCACCTCGGCATGGCGCCTGGCCGGGGCCGTGATCTCGCGAG  
TTTTGAACGCTGTAAGTACACATCGTGAGCATGGAGGACAACACAGCCCCGGCG  
GCCGCCCCGGCTCTCCGGCGAACGCGACGCGACGCACTTGAAGAAGAAGAAG  
CTAAATGTCATGTCAGTGAGCGCTGAATTGCANCGACCGGCTACGATCGATCGG  
GCTACGGGTGGTTCCGTCCGTCTGGCGTGAAGAGGTGGATGGACGACGAACTCC  
GANCCGACCACCACCGGCATGTAGTAATGTAATCCCTTCTTCGTTCCCAGTTTCTC  
CACCGCCTCCATGATCACCCCGTAAACTCCTAAGCCCTATNNNTTACTACNATT  
AATGTTTTAAANTGTTCTANTAATTGCTATGNTGTTTATTNCC

Figure 2c(4)

TATCGAAGTAGCCGCCGCTGCCCNTGCACGGTGGAGGAGGTGGAGGGCGTTGAGC  
TGCGGGGGCGGGCGGGAGGGGCGGCGGCGGCACGTTNAGCTCCGACAGCATGCTC  
TCGACCCAAAACNACAGGTCGGTGGGGTTGTAGTGCACGGTGTCCGTGGCGAGG  
GGGTGGCNAACTGTCGTCAGGGGCGGGCGCCNGCGCCACNCCGCCCATCCCCA  
TGGCCATCTCGANCTGCTCCAGCTTCTGCGCCACTTCNCCATGTCNGATGCGCG  
CNCCTTGTACCCGA

09485529-030100

8/22

Figure 2c(5)

ACGGCGCGGNCCNCGCNNGCTTGGGAGGGGATCGGCCGCGAGCGCNTANATGCTG  
CTGGAGGAGTCGACGGAGGGCGGGAGATCGAACTAGCCGCCGCTGCCCCGTGTAC  
GGTGGAGGAGGTGGAGGCGTTGAGCTGCGGGGCGGGCGGGAGGGGCGAGCNGCT  
GCACGTTNAGCTCCACACCCACGTCTCTCAACCCAACCACGACNCGTCTGTGGGG  
TNGTAATNCACGGTNTCCCTNGCTANGTGGGTGGCCAATCTNT

Figure 2c(6)

CACGGTGTCCGTGGCGAGGTGGGTGGCGAAGCTGTCGTCGGGGGCGGGCGCCGGC  
GCCCACGCCGCCCATCCCCATGGCCATCTCGAGCTGCTCCAGCTTCTGCGCCACG  
TCCGCCATGTGCGGAGGCGCGCACCTTGTACCCGAGCGCCGCCAGCAGCNCGNCC  
ACCTCCTCCCCCTCCCCCGCCGCCGCCGACACCATCATCTTGTCCTCGGACGANCC  
CATGCCGCCACCGCCGCCGCCGCTCCCTCCGGCGTCTTGGTACTCCCGCTTCATG  
ATCCGCGAGCTACCTCGCCTCTCTATCTATCTCTGGCCAATAATTGCGCA

Figure 2c(7)

GACCACCACCGGCATGTAGTAATGTAATCCCTTCTTCNTTCCCAGTTCTCCACCGC  
CTCCATGATCACCCGTAAACTCCTAAGCCCTATTATTACTACTATTATGTNTAA  
ATGTCTATTATTGCTANGTGTAATTCCTCCAACCGCTCATATCAAAATAAGCACG  
GGCCGGACTTTGTTAGCAGCTCCAATGAGAATGAAATGAATTTTGTACGCAAGGC  
ACGTCCAAACTGGGCTGAGCTTTGTTCTGTTCTGTTATGTTTCATGGTGCTCACTG  
CTCTGATGAACATGATGGTGCCTCCAATGGGTGGCTTTGCAATTGTTGAACGTTT  
TGGCTTGGGGGACTTGGTGNNTGGTGCATGGGAATGAANATTCCACATCCNCNG  
GAATTAAATTAGCCCATCCCG

09485529-030100



9/22

Figure 3a

TTTCANTTTCNTCCTTTTTTCTTCTTTTTTCCAACCCCCGGCCCCCNGACCCTTGGATCC  
AAATCCCGAACCCGCCCCAGAACCNNGGAACCGAGGCCAAGCAAAGNTTGTGEGEE  
AATTATTGGCCAGAGATAGATAGAGAGGCGAGGTAGCTCGCGGATCATGAAGCGGG  
AGTACCAGGACGCCGGAGGGAGCGGCGGCGGCGGTGGCGGCATGGGTTCGTCCGAG  
GACAAGATGATGGTGTCTGGCGGCGGCGGGGGAGGGGGAGGAGGTGGACGAGCTGC  
TGGCGGCGCTCGGGTACAAGGTGCGCGCCTCCGACATGGCGGACGTGGCGCAGAAG  
CTGGAGCAGCTCGAGATGGCCATGGGGATGGGCGGCGTGGGCGCTGGCGCCGCCCC  
TGACGACAGGTTNGCCACCCGCNGGCCGCGGACACNGTGCANTACAACCCACNGA  
CNTGTCTGTCTTGGGTCTGAGAGCATGCTGTCTGGAGCTAAANGAGCCGCNGCCGCCCC  
TCCCGCCCCGCCCGCAGCTCAACGCCTCCACCGTCAACGGGACGCGCGGNTACTTNG  
ATCTCCCGCCCTCAGTCGACTCCTCCAGCAGCATCTACGCGCTGCGGCCGATCCCCT  
CCCCGGCCGGCGCGACGGCGCCGGCCGACCTGTCCGCCGACTCCGTGCGGGATCCC  
AAGCGGATGCGCACTGGCGGGAGCAGCACCTCGTCTCATCTCTCATANTCGTCT  
CTCGGTGGGGGCGCCAGGAGCTCTGTGGTGGAGGCGNGCCCCGCCGGTCTGCGGCCGC  
GGCAAACGCGACGCCCGCGCTGCCGGTCTGTCTGGTTCGACACGCAAGGAGGCCGGGA  
TTCGGCTGGTGCACGCGCTGCTGGCGTGCAGCGGAGGCCGTGCAGCAGGAGAACCTC  
TCCGCCGCGGAGGCGCTGGTGAAGCAGATAACCTTGCTGGCCGCGTCCCAGGGCGG  
CGCGATGCGCAAGGTGCGCCGCTACTTCGGCGAGGCCCTCGCCCGCCGCGTCTTCCG  
CTTCCGCCCGCAGCCGGACAGCTCCCTCCTCGACGCCGCTTCGCCGACCTCCTCCA  
CGCGCACTTCTACGAGTCCTGCCCTACCTCAAGTTCGCGCACTTCACCGCCAACCA  
GGCCATCCTGGAGGCGTTCGCCGGCTGCCGCCGCGTGCACGTCTGCTGACTTCGGCAT  
CAAGCAGGGGATGCAGTGGCCCGCACTTCTCCAGGCCCTCGCCCTCCGTCCCAGGCGG  
CCCTCCCTCGTTCCGCCTCACCGGCGTCCGCCCGCCGAGCCGGACGAGACCGACGC  
CCTGCAGCAGGTGGGCTGGAAGCTCGCCAGTTCGCGCACACCATCCGCGTCTGACTT  
CCAGTACCGCGGCCCTCGTCTGCCGCCACGCTCGCGGACCTGGAGCCGTTTCATGCTGCA  
GCCGGAGGGCGAGGAGGACCCGAACGAAGANCCCGANGTAATCGCCGTCAACTCA  
GTCTTCGAGATGCACCGGCTGCTCGCGCAGCCCGGCGCCCTGGAAAAGGTTCTTGGG  
CACCGTGCGCCCGCGTGCAGGCCAGAAATTCNTCACCGTGGTGGAACAGGAGGCAA  
ATCACAACCTCCGGCACATTCTGGACCGCTTCACCGAGTCTCTGCACTACTACTCCA  
CCATGTTTCGATTCCCTCGAGGGCGGCAGCTCCGGCGGGCGGCCATCCGAAGTCTCAT  
CGGGGGCTGCTGCTGCTCCTGCCGCCGCCGGCACGGACAGGTTCATNTCCGAGGTGT  
ACCTCGGCCCGGCAGATCTGCAACGTGGTGGCCTGCGAGGGGGCGGAACGCACAGAN  
CGCCACGAGACGCTGGGCCAGTGGCGGAACCGGCTGGGCAACGCCGGGTTCGAGAC  
CGTCCACCTGGGCTCCAATGCCTACAAGCAGGCGANACGCTGCTGGCGCTCTTCGC  
CGGCGGCGAACGGCTACANGTGGAAGAAAAGGAAGGCTGCCTGACGCTGGGGTTGC  
ACACNCCCCCTGATTGCCACCTCGGCATGGCGCCTGGCCGGGGCCGTGATCTCGCGA  
GTTTTGAACGCTGTAAGTACACATCGTGAGCATGGAGGACAACACAGCCCCGGCGG  
CCGCCCGGGCTCTCCGGCGAACGCACGCACGCACGCACTTGAAGAAGAAGAAGCTA  
AATGTCATGTCAGTGAGCGCTGAATTGCAGCGACCGGCTACGATCGATCGGGCTAC  
GGGTGGTTCCGTCCGTCTGGCGTGAAGAGGTGGATGGACGACGAACCTCCGAGCCGA  
CCACCACCGGCATGTAGTAATGTAATCCCTTCTTCGTTCCCAGTTCTCCACCGCCTCC  
ATGATCACCCGTAAAACCTCCTAAGCCCTATTATTACTACTATTATGTTTAAATGTCTA  
TTATTGCTATGTGTAATTCCTCCAACCGCTCATATCAAAATAAGCACGGGCCGGACT  
TTGTTANCAGCTCCAATGAGAATGAAATGAATTTGTACGCAAGGCACGTCCAAAA  
CTGGGCTGAGCTTTGTTCTGTTCTGTTATGTTTCATGGTGCTCACTGCTCTGATGAACA  
TGATGGTGCCTCCAATGGTGGCTTTGCAATTGTTGAAACGTTTGGCTTGGGGGACTT  
GNGTGGGTGGGTGCATGGGGATGAATATTACATCNCCGGATTAAATTAAGCCAT  
CCCGTTGGCCGTCCTTTGAATANCTTGCCCNAAACGAAATTTCCCCCNATC

0010E0 625529

Figure 3b

```
PRETTYBOX of: My.Msf{*} August 7, 1997 13:06:42.76
```

Gai Rht	.....M IERRGSSRIM	KRRDHHHHHQ. KREYQDAGGS	..GGGGMGSE GGGGGGMGSE	D DKMM	KKTMMMMNEED DKMMVSAAG	DNGMDELLA EGEEVDELLA	VLGYKVRSSSE ALGYKVRASD	41 60
Gai Rht	MADVAQKLEQ MADVAQKLEQ	LEVMMSS... LEMAMGMGGV	..NVQEDD GAGAAPDRQV	LSQLATEVH XHPXAADTVX	YNPAELYTWL YNPTDXSSWV	DSMLTDLNPP ESMLSELXEP	93 120	
Gai Rht	XPPLPPAPQL .....	..ASTVTGSGG ..	..XDDLPPSVDS ..	SNAEYDGLKAI SSSIYALRPI	PGDAILNQFA PSPAGATAPA	IDSASSSNQ. DLSADSVRDP	123 180	
Gai Rht	...GGGGDT KMRRTGGSS	YTTNKRLKCS SSSSSSXSLL	NG...VVE GGGARSSVVE	...TTTAT AAPPVAAAAN	AESTRHHVVLV ATPALPVVUV	DSQENGVRRLV DTQEA GIRLV	169 240	
Gai Rht	HALLACAEAV HALLACAEAV	QKENLTVAEA QKENLSAEA	LVKQIGFLAV LVKQIPLLAA	SOIGAMRKVA SQGGAMRKVA	TYFAEALARR AYFGAALARR	IYRLSPSQ.. VFRFRPQ PDS	227 300	
Gai Rht	SPIDHSLSDT SLLDAAAFADL	LQMHFYEETCP LHAHFYESCP	YLKFAHFTAN YLKFAHFTAN	QALIEAFQK QALIEAFAGC	KRVHVIDFSM RRVHVVD FGI	SQGLQMPALM KQGMQMPALL	287 360	
Gai Rht	QALALRPGGP QALALRPGGP	PVFRLTGIGP PSFRLTGIGP	PAPDNFDYLLH PQPDETDALQ	EVGCKLAHLA QVGVWKLAAQFA	EAIHHVEFEYR HTIRVD FQYR	GFVAN TLA DL GLVAATLA DL	347 420	
Gai Rht	DASMLELRPS EPFMLQPEGE	EIES...V EDPNEXPXVI	AVNSVFELHK AVNSVFEMHR	LLGRRPGAI DK LLAAQPGALEK	VLG.VVNQIK VLGHRAPPCG	PEIFTVVE.Q PEFXTV VETO	400 480	
Gai Rht	ESNHNSPIFL EANHNSGTFL	DRFTESLHYY DRFTESLHYY	STLFDSLEGV STMFDSLEGG	PSGQ...S SSGGGSPSEVS	...SAAAA PAAA SGAAAA PAAA	DKVMSEVY GTQVXSEVY	442 540	
Gai Rht	LKGQICNVVA LGRQICNVVA	CDGPD RVERH CEGAERTXRH	ETLSQWRNRF ETLGQWRNRL	GSAGFAAAHI GNAGFETVHL	GSNAFKQASM GSNAFKQAXT	LLALFN GEG LLALFAGGER	502 600	
Gai Rht	YRVEESDGGCL LXVVEEKEGCL	MLGWHTRPLI TLGLHTXPLI	ATSAMKLS TN ATSAMRLAGP	532 630				

11/22

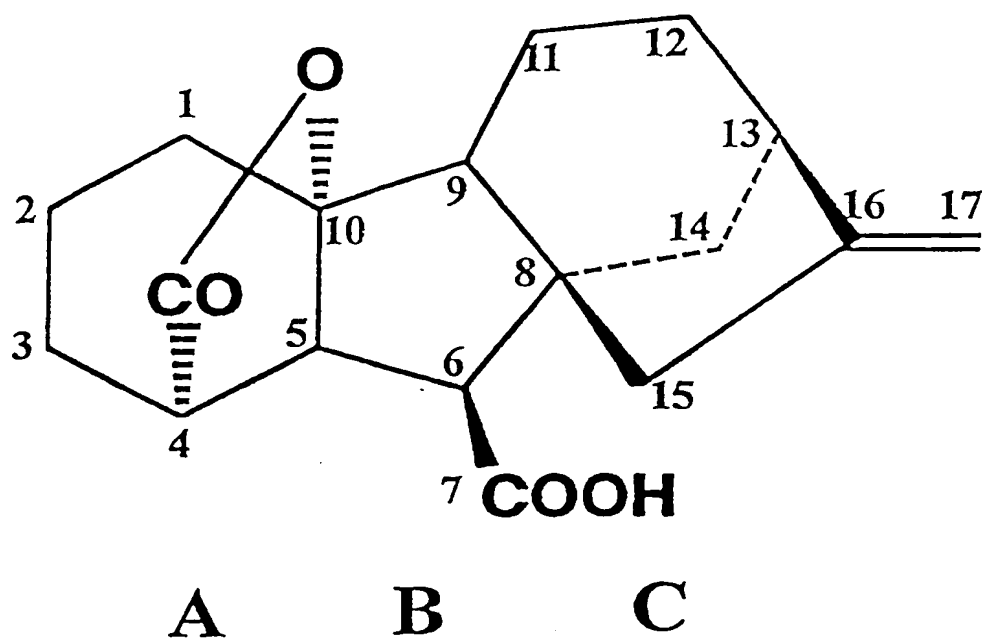
Figure 4a

ACGCGTCCGGAAGCCGGCGGGAGCAGCGGCGGCGGGAGCAGCGCCGATATGGG  
GTCGTGCAAGGACAAGGTGATGGCGGGGGCGGCGGGGGAGGAGGAGGACGTCT  
ACGAGCTGCTGGCGGGCGCTCGGGTACAAGGTGCGGTTCGTCCGACATGGCCGACG  
TCGCGCAGAANCTGGAGCAGCTGGAGATGGCCATGGGGATGGGCGGCGTGAGCG  
CCCCCGGCGCCGCGGATGACGGGTTTCGTGTCGCACCTGGCCACGGACACCGTGC  
ACTACAACCCCTCGGACCTCTCCTCCTGGGTTTCNGAGAGCATGCTTTCGGAGTTA  
AAGGCGCCGTTGCCCCCTTATCCCGCCAGGCGCCGCGGGCTGCCCCGCCATGCTTT  
CCAAC TTCGTCCACTGTCACCGGCGGCGGTGGTAGCGGCTTCTTTGAANTCCAG  
CCGCTGCCGANTCGTCGAGTAGCACNTACGCCCTCAGGCCGATCTCCTTACCGGT  
GGTGGCGACGGCTGACCCGTCGGCTGCTGACTCGGCGAGGGACACCAAGCGGAT  
GCGCACTGGCGGGCGGCAGCACGTCGTCGTCCTCATCGTCGTCTTCCTCTCTGGGC  
GGTGGGGCCTCGCGGGGCTCTGTGGTGGAGGCTGCTCCGCCGGCGACGCAAGGG  
GCCGCGGCGGCGAATGCGCCCGCCGTGCCGGTTGTGGTGGTTGACACGCAGGAG  
GCTGGNATCGGGCCTGGTGC

09485529-030100

Wheat	I E R G S S R I M	K R E Y Q D A G G S	G G G G G M G S E	D K M M M S A A A G	E G E E V D E L L A	A L G Y K V R A S D	60
Rice	.. . . . . M	T R P E A G G S S G	G G S S A D M G S C	K D K M M A G A A G	E E E D U D E L L A	A L G Y K V R S S D	50
Gai	.. . . . . M	K R D H H H H Q D	.. . . . .	K K T M M M N E E E	E G N G M D E L L A	V L C Y K V R S S E	41
Wheat	M A D V A O K L E O	L E M A N G M G G V	G A G A A P D R Q V	X H P X A A D T V X	Y N P T D X S S W V	E S M L S E L X E P	120
Rice	M A D V A O K L E O	L E M A N G M G G V	S A P G A A D D G F	V S H L A T D T V H	Y N P S D L S S W V	E S M L S E L K A P	110
Gai	M A D V A O K L E O	L E M M M S . . . .	.. . . N V Q E D D	L S Q L A T E T V H	Y N P A L Y T W T V	E S S L T E L N P P	93
Wheat	X P P L P P A P Q	L N A . . . . . S	T V T G S G . G Y	X D L P P S V D S S	S S I Y A L R P I P	S P A G A T A P A D	171
Rice	L P L I P P G A A G	L P A M L S P T S S	T V T G G G C S C F	F E X P A A A X S S	S S T Y A L R P I S	L P V V A T A D P S	170
Gai	.. . . . .	.. . . . .	.. . . . .	.. . . . . S S	N A E V D L K A P I P	G D A I L N . . Q	112
Wheat	L S A D S V R D P K	R M R T G G S S T S	S S S S S X S S L G	G G A R S S V V E	A A P P V . . A A A	A N A T P A L P V V	228
Rice	A A D S A R D T K	R M R T G G C S T S	S S S S S S S S L G	G G A S R G S V V E	A A P P A T Q G A A	A A N A P A P V P V	229
Gai	F A I D S A . . . .	.. . . . .	S S S N Q G G G G	D T Y T T N K R M K	C S N G V V E T T	A T A E S T R H V V	157
Wheat	V V D T Q . E A G	I R L V H A L L A C	A E A V Q Q E N L S	A A E A L V K O I P	L L A A S O G G A M	R K V A A Y F G E A	286
Rice	V V D T Q E E A G	I R L V H A L L A C	X E A V Q Q E N L	.. . . . .	.. . . . .	.. . . . .	258
Gai	V V D S Q . . E N G	M R L V H A L L A C	A E A V Q K E N L T	V A E A L V K O I G	F L A V S Q I G A M	R K V A T Y F A E A	215
Wheat	L A R R V F R F R P	Q P D S S E L L D A A	F A D L L H A H E Y	E S C P Y L K F A H	P T A N O A I L E A	F A G C R R V H V V	346
Rice	.. . . . .	S Q . . S P I D H S	L S D T L Q M H E Y	E T C P Y L K F A H	P T A N O A I L E A	F Q G K K R V H V I	258
Gai	L A R R I Y R L S P	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	273
Wheat	D E G I K O G M O W	P A L L O A L A L R	P G G P P S F R L T	G V G P P Q P D E T	D A L Q Q V G W K L	A Q F A H T I R V D	406
Rice	.. . . . .	.. . . . .	.. . . . .	G I G P P A P D N F	D Y L H E V G C K L	A H L A E A I H V E	258
Gai	D E S M S O G L O W	P A L M O A L A L R	P G G P P V F R L T	.. . . . .	.. . . . .	.. . . . .	333
Wheat	F Q Y R G L V A A T	L A D L E P F M L Q	P E G E E D P N E X	P X V I A V N S V F	E M H R L L A Q P G	A L E K V L G H R A	466
Rice	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	258
Gai	F E Y R G F V A N T	L A D L D A S M L E	L R P S E I E S . .	.. . . V A V N S V F	E L H K L L G R P G	A I D K V L G . V V	387
Wheat	P P C G P E F X T V	V E T O E A N H N S	G T F L D R F T E S	L H Y Y S T M F D S	L E G G S S G G G P	S E V S S G A A A A	526
Rice	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	434
Gai	N Q I K P E I F T V	V E . Q E S N H N S	P I F L D R F T E S	L H Y Y S T L E D S	.. . . . .	.. . . . .	258
Wheat	P A A A G T D Q V X	S E V Y L G R O I C	N V V A C E G A E R	T X R H E T L G O W	R N R L G N A G F E	T V H L G S N A Y K	586
Rice	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	258
Gai	.. . . . . D K V M	S E V Y L G K O I C	N V V A C D G P D R	V E R H E T L S O W	R N R F G S A G F A	A A H I G S N A F K	488
Wheat	O A X T L L A L F A	G G E R L X V E E K	E G C L T L G L H T	X P L I A T S A M R	L A G P 630	.. . . . .	.. . . . .
Rice	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .	.. . . . .
Gai	O A S M L L A L F N	G G E G Y R V E E S	D G C L M T G W H T	R P L I A T S A M K	L S T N 532	.. . . . .	.. . . . .

13/22

Figure 5

0010E0" 62558460

Figure 6a

GTCGACCCACGCGTCCGGAAGCCGGCGGGAGCAGCGGCGGCGGGAGCAGCGCC  
GATATGGGGTCGTGCAAGGACAAGGTGATGGCGGGGGCGGCGGGGGAGGAGGA  
GGACGTCGACGAGCTGCTGGCGGGCGCTCGGGTACAAGGTGCGGTTCGTCCGACAT  
GGCCGACGTCGCGCAGAAGCTGGAGCAGCTGGAGATGGCCATGGGGATGGGCGG  
CGTGAGCGCCCCCGGCGCCGCGGATGACGGGTTCGTGTCGCACCTGGCCACGGA  
CACCGTGCACTACAACCCCTCGGACCTCTCCTCCTGGGTCGAGAGCATGCTTTCC  
GAGCTCAACGCGCCGCTGCCCCCTATCCCGCCAGCGCCGCGGCTGCCCCGCCATG  
CTTCCACCTCGTCCACTGTACCGGCGGCGGGTGGTAGCGGCTTCTTTGAACTCCC  
AGCCGCTGCCGACTCGTCGAGTAGCACCTACGCCCTCAGGCCGATCTCCTTACCG  
GTGGTGGCGACGGCTGACCCGTCGGCTGCTGACTCGGCGAGGGACACCAAGCGG  
ATGCGCACTGGCGGCGGCAGCACGTCGTCGTCCTCATCGTCGTCCTTCTCTG  
GCGGTGGGGCCTCGCGGGGCTCTGTGGTGGAGGCTGCTCCGCCGGCGACGCAAG  
GGGCCGCGGCGGCGAATGCGCCCCGCCGTGCCGGTTGTGGTGGTTGACACGCAGG  
AGGCTGGGATCCGGCTGGTGACGCGTTGCTGGCGTGCGCGGAGGCCGTGCAGC  
AGGAGAACTTC

Figure 6b

RPTRPEAGGSSGGSSADMGSCKDKVMAGAAGEEEDVDELLAALGYKVRSSDMAD  
VAQKLEQLEMAMGMGGVSAPGAADDGFVSHLATDTVHYNPSDLSSWVESMLSELN  
APLPIPPAPPAARHASTSSTVTGGGSGFFELPAAADSSSSTYALRPISLPVVATADPS  
AADSARDTKRMRTGGGSTSSSSSSSSSLGGGASRGSVVEAAPPATQGAAAANAPAVP  
VVVVDVTQEAGIRLVHALLACAEAVQQENF

15/22

Figure 7a

GCCAGGAGCTCTGTGGTGGAGGGETGEEEEGEEGGTCEGCGGCECGCGGCCAACGCG  
ACGCCCCGCGCTGCCGGTCGTCTGTGGTCGACACGCAGGAGGCCGGGATTCTGGCTG  
GTGCACGCGCTGCTGGCGTGC GCGGAGGCCGTGCAGCAGGAGAACCTCTCCGCC  
GCGGAGGCGCTGGTGAAGCAGATACCCTTGCTGGCCGCGTCCCAGGGCGGCGCG  
ATGCGCAAGGTCGCCGCCTACTTCGGCGAGGCCCTCGCCCCGCCGCTCTTCCGCT  
TCCGCCCCGACGCCGGACAGCTCCCTCCTCGACGCCGCCTTCGCCGACCTCCTCCA  
CGCGCACTTCTACGAGTCCTGCCCCCTACCTCAAGTTCGCGCACTTCACCGCCAAC  
CAGGCCATCCTGGAGGCGTTCCGCCGGCTGCCGCCGCGTGCACGTCGTCGACTTCG  
GCATCAAGCAGGGGATGCAGTGGCCCCGCACTTCTCCAGGCCCTCGCCCTCCGTCC  
CGGCGGCCCTCCCTCGTTCCGCCTCACCGGCGTCCGGCCCCCGCAGCCGGACGAG  
ACCGACGCCCTGCAGCAGGTGGGCTGGAAGCTCGCCCAGTTCGCGCACACCATC  
CGCGTCGACTTCCAGTACCGCGGCCCTCGTCGCCGCCACGCTCGCGGACCTGGAGC  
CGTTCATGCTGCAGCCGGAGGGCGAGGAGGACCCGAACGAGGAGCCCGAGGTAA  
TCGCCGTCAACTCAGTCTTCGAGATGCACCGGCTGCTCGCGCAGCCCGGCGCCCT  
GGAGAAGGTCCTGGGCACCGTGC GCGCCGTGCGGCCAGGATCGTCACCGTGGT  
GGAGCAGGAGGCGAATCAAACTCCGGCACATTCTGGACCGCTTCACCGAGTC  
TCTGCACTACTACTCCACCATGTTTCGATTCCCTCGAGGGCGGCAGCTCCGGCGGC  
GGCCCATCCGAAGTCTCATCGGGGGCTGCTGCTGCTCCTGCCGCCGCCGGCACGG  
ACCAGGTCATGTCCGAGGTGTACCTCGGCCGGCAGATCTGCAACGTGGTGGCCTG  
CGAGGGGGCGGAGCGCACAGAGCGCCACGAGACGCTGGGCCAGTGGCGGAACC  
GGCTGGGCAACGCCGGGTTCGAGACCGTCCACCTGGGCTCCAATGCCTACAAGC  
AGGCGAGCACGCTGCTGGCGCTCTTCGCCGGCGGGCGACGGCTACAAGGTGGAGG  
AGAAGGAAGGCTGCCTGACGCTGGGGTGGCACACGCGCCCCGCTGATCGCCACCT  
CGGCATGGCGCCTGGCCGGGGCCGTGATCTCGCGAGTTTTGAACGCTGTAAGTACA  
CATCGTGAGCATGGAGGACAACACAGCCCCGGCGGGCCGCCCGGCTCTCCGGCG  
AACGCACGCACGCACGCACTTGAAGAAGAAGAAGCTAAATGTCATGTCAGTGAG  
CGCTGAATTGCAGCGACCGGCTACGATCGATCGGGCTACGGGTGGTTCCGTCCGT  
CTGGCGTGAAGAGGTGGATGGACGACGAACCTCCGAGCCGACCACCACCGGCATG  
TAGTAATGTAATCCCTTCTTCGTTCCCAGTTCTCCACCGCCTCCATGATCACCCGT  
AAAACCTCCTAAGCCCTATTATTACTACTATTATGTTTAAATGTCTATTATTGCTAT  
GTGTAATTCTCCAACCGCTCATATCAAAATAAGCACGGGCCGGAAAAA  
AA  
AA

Figure 7b

ARSSVVEAAPPVAAAANATPALPVVVVDTEAGIRLVHALLACAEAVQQENLSAAE  
ALVKQIPLLAASQGGAMRKVAA YFGEALARRVFRFRPQPDSSLLDAFADLLHAHF  
YESCPYLKFAHFTANQAILEAFAGCRRVHVVDGFIKQGMQWPALLQALALRPGGPPS  
FRLTGVGPPQPDETDALQQVGWKLAQFAHTIRVDFQYRGLVAATLADLEPFMLQPE  
GEEDPNEEPEVIAVNSVFEMHRLLAQPGALEKVLGTVRAVRPRIVTVVEQEANHNSG  
TFLDRFTESLHYYSTMFDSLEGGSSGGPSEVSSGAAAAPAAAGTDQVMSEVYLGR  
QICNVVACEGAERTERHETLGQWRNRLGNAGFETVHLGSNAYKQASTLLALFAGGD  
GYKVEEKEGCLTLGWHTRPLIATSAWRLAGP

Figure 8a

ATAGAGAGGCGAGGTAGCTCGCGGATCATGAAGCGGGAGTACCAGGACGCCGG  
 AGGGAGCGGCGGCGGCGGTGGCGGCATGGGCTCGTCCGAGGACAAGATGATGGT  
 GTCGGCGGCGGCGGCGGGGAGGGGGAGGAGGTGGACGAGCTGCTGGCGGCGCTCG  
 GGTACAAGGTGCGCGCCTCCGACATGGGCGGACGTGGGCGCAGAAAGTGGAGCAGC  
 TCGAGATGGCCATGGGGATGGGCGGCGTGGGCGCCGGCGCCCGCCCCGACGACA  
 GCTTCGCCACCCACCTCGCCACGGACACCGTGCCTACAACCCACCGACCTGTC  
 GTCTTGGGTTCGAGAGCATGCTGTCGGAGCTCAACGCGCCGCGCGCCCGCTCCCG  
 CCCGCCCCGCGAGCTCAACGCCTCCACCTCCTCCACCGTCACGGGCAGCGGCGGCT  
 ACTTCGATCTCCCGCCCTCCGTCGACTCCTCCAGCAGCATCTACGCGCTGCGGCC  
 GATCCCCCTCCCCGGCCGGCGCGACGGCGCCGGCCGACCTGTCCGCGGACTCCGTG  
 CGGGATCCCAAGCGGATGCGCACTGGCGGGAGCAGCACCTCGTCGTCATCCTCCT  
 CCTCGTCGTCTCTCGGTGGGGGCGCCAGGAGCTCTGTGGTGGAGGCTGCCCCGCC  
 GGTCGCGGCGCGCGGCCAACGCGACGCCCGCGCTGCCGGTCGTGCTGGTGCACAC  
 GCAGGAGGCCGGGATTTCGGCTGGTGCACGCGCTGCTGGCGTGCGCGGAGGCCGT  
 GCAGCAGGAGAACCTCTCCGCCGCGGAGGCGCTGGTGAAGCAGATACCCTTGCT  
 GGCCGCGTCCAGGGCGGCGCGATGCGCAAGGTCGCCGCCTACTTCGGCGAGGC  
 CCTCGCCCGCGCGTCTTCCGCTTCCGCCCGCAGCCGGACAGCTCCCTCCTCGAC  
 GCCGCTTCGCCGACCTCCTCCACGCGCACTTCTACGAGTCTGCCCTACCTCAA  
 GTTCGCGCACTTCACCGCCAACCAGGCCATCCTGGAGGCGTTTCGCCGGCTGCCGC  
 CGCGTGCACGTCGTGACTTCGGCATCAAGCAGGGGATGCAGTGGCCCGCACTTC  
 TCCAGGCCCTCGCCCTCCGTCCCGGCGGCCCTCCCTCGTTCCGCCTACCGGCGTC  
 GGCCCCCGCAGCCGGACGAGACCGACGCCCTGCAGCAGGTGGGCTGGAAGCTC  
 GCCCAGTTCGCGCACACCATCCGCGTCGACTTCCAGTACCGCGGCCCTCGTCGCCG  
 CCACGCTCGCGGACCTGGAGCCGTTTCATGCTGCAGCCGGAGGGCGAGGAAGACC  
 CGAACGAGGAGCCCGAGGTAATCGCCGTCAACTCAGTCTTCGAGATGCACCGGC  
 TGCTCGCGCAGCCCGGCGCCCTGGAGAAGGTCCTGGGCACCGTGCGCGCCGTGC  
 GGCCAGGATCGTCACCGTGGTGGAGCAGGAGGCGAATCACAACCTCCGGCACAT  
 TCCTGGACCGCTTCACCGAGTCTCTGCACTACTACTCCACCATGTTTCGATTCCCTC  
 GAGGGCGGCAGCTCCGGCGGCGGCCCATCCGAAGTCTCATCGGGGGCTGCTGCT  
 GCTCCTGCCGCCCGCGGCACGGACAGGTCATGTCCGAGGTGTACCTCGGCCGGC  
 AGATCTGCAACGTGGTGGCCTGCGAGGGGGCGGAGCGCACAGAGCGCCACGAGA  
 CGCTGGGCCAGTGGCGGAACCGGCTGGGCAACGCCGGGTTCGAGACCGTCCACC  
 TGGGCTCCAATGCCTACAAGCAGGCGAGCACGCTGCTGGCGCTCTTCGCCGGCGG  
 CGACGGCTACAAGGTGGAGGAGAAGGAAGGCTGCCTGACGCTGGGGTGGCACAC  
 GCGCCCGCTGATCGCCACCTCGGCATGGCGCCTGGCCGGGCGGTGATCTCGCGAG  
 TTTTGAACGCTGTAAGTACACATCGTGAGCATGGAGGACAACACAGCCCCGGCG  
 GCCGCCCCGGCTCTCCGGCGAACGCACGCACGCACGCACTTGAAGAAGAAGAAG  
 CTAATGTCATGTCAGTGAGCGCTGAATTGCAGCGACCGGCTACGATCGATCGGG  
 CTACGGGTGGTTCCGTCCGTCTGGCGTGAAGAGGTGGATGGACGACGAACCTCCG

Figure 8b

MKREYQDAGGSGGGGGGMGSSEDKMMVSAAGEGEEVDELLAALGYKVRASDM  
 ADVAQKLEQLEMAMGMGGVGAGAAPDDSFATHLATDTVHYNPTDLSSWVESMLS  
 ELNAPPPPLPPAPQLNASTSSTVTGSGGYFDLPPSVDSSSSIYALRPIPSAGATAPADL  
 SADSVRDPKRMRTGGSSTSSSSSSSSSLGGGARSSVVEAAPPVAAAANATPALPVV  
 VDTQEAGIRLVHALLACAEAVQQENLSAAEALVKQIPLLAASQGGAMRKVAAYFGE  
 ALARRVFRFRPQPDSSLLDAAFADLLHAHFYESCPYLKFAHFTANQAILEAFAGCRR  
 VHVVDGFIKQGMQWPALLQALALRPGPPSFRLTGVGPPQPDETDALQQVWGKLA  
 QFAHTIRVDFQYRGLVAATLADLEPFMLQPEGEEDPNEEPEVIAVNSVFEMHRLLAQ  
 PGALEKVLGTVRAVRPRIVTVVEQEANHNSGTFILDRFTESLHYSTMFDSLEGGSSG  
 GGPSEVSSGAAAAPAAAGTDQVMSEVYLGRQICNVVACEGAERTERHETLGQWRN  
 RLGNAFETVHLGSNAYKQASTLLALFAGGDGYKVEEKEGCLTLGWHTRPLIATSA  
 WRLAGP



17/22

Figure 9a

TTTCGCCTGCCGCTGCTATTAATAATTGCCTTCTTGTTTCCCCGTTTTTCGCCCCAG  
CCGCTTCCCCCCTCCCCTACCCTTTCCTTCCCCACTCGCACTTCCCAACCCTGGAT  
CCAAATCCCAAGCTATCCCAGAACCGAAACCGAGGCGCGCAAGCCATTATTAGC  
TGGCTAGCTAGGCCTGTAGCTCCGAAATCATGAAGCGCGAGTACCAAGACGCCG  
GCGGGAGTGGCGGGCGACATGGGCTCCTCCAAGGACAAGATGATGGCGGGCGGCGG  
CGGGAGCAGGGGAACAGGAGGAGGAGGACGTGGATGAGCTGCTGGCCGCGCTC  
GGGTACAAGGTGCGTTTCGTCGGATATGGCGGACGTTCGCGCAGAAGCTGGAGCAG  
CTCGAGATGGCCATGGGGATGGGCGGCGTGGGCGGCGCCGGCGCTACCGCTGAT  
GACGGGTTCGTGTCGCACCTCGCCACGGACACCGTGCCTACAATCCCTCCGACC  
TGTCGTCCTGGGTGAGAGCATGCTGTCCGAGCTCAACGCGCCCCCAGCGCCGCT  
CCCGCCCCGCGACGCCGGCCCCAAGGCTCGCGTCCACATCGTCCACCGTCACAAGT  
GGCGCCGCGCCGGTGCTGGCTACTTCGATCTCCCGCCCCCGCTGGACTCGTCCA  
GCAGTACCTACGCTCTGAAGCCGATCCCCTCGCCGGTGGCGGGCGCCGTTCGGCCGA  
CCCGTCCACGGAATCGGCGCGGGAGCCCAAGCGGATGAGGACTGGCGGGCGGCAG  
CACGTCGTCCTCCTCTTCCTCGTCGTCATCCATGGATGGCGGTTCGCACTAGGAGCT  
CCGTGGTTCGAAGCTGCGCCGCGGCGACGCAAGCATCCGCGGGCGGCCAACGGGC  
CCGCGGTGCCGGTGGTGGTGGTGGACACGCAGGAGGCCGGGATCCGGCTCGTGC  
ACGCGCTGCTGGCGTGC GCGGAGGCCGTGCAGCAGGAGAACTTCTCTGCGGCGG  
AGGCGCTGGTCAAGCAGATCCCCATGCTGGCCTCGTCGCAGGGCGGTGCCATGC  
GCAAGGTCGCCGCCTACTTCGGCGAGGCGCTTGCCCGCCGCGTGTATCGCTTCCG  
CCCGCCACCGGACAGCTCCCTCCTCGACGCCGCCTTCGCCGACCTCTTGACGCG  
CACTTCTACGAGTCCTGCCCCCTACCTGAAGTTCGCCCACTTCACCGCGAACCGAG  
CCATCCTCGAGGCCTTCGCCGGCTGCCGCCGCGTCCACGTCGTCGACTTCGGCAT  
CAAGCAGGGGATGCAGTGGCCGGCTCTTCTCCAGGCCCTCGCCCTCCGCCCTGGC  
GGCCCCCGTTCGTTCCGGCTCACCGGCGTCGGGCGCGCCGACGCCGAGAGACC  
GACGCCTTGCAGCAGGTGGGCTGGAACTTGCCAGTTTCGCGCACACCATCCGCG  
TGGACTTCCAGTACCGTGGCCTCGTCGCGGCCACGCTCGCCGACCTGGAGCCGTT  
CATGCTGCAACCGGAGGGCGATGACACGGATGACGAGCCCGAGGTGATCGCCGT  
GAACTCCGTGTTTCGAGCTGCACCGGCTTCTTGCGCAGCCCGGTGCCCTCGAGAAG  
GTCCTGGGCACGGTGC GCGCGGTGCGGCCGAGGATCGTGACCGTGGTTCGAGCAG  
GAGGCCAACCACAACCTCCGGCACGTTCTTCGACCGCTTCACCGAGTCGCTGCACT  
ACTACTCCACCATGTTTCGATTCTCTCGAGGGCGCCGGCGCCGGCTCCGGCCAGTC  
CACCGACGCCTCCCCGGCCGCGGCGGCGGCACGACCGAGGTATGTTCGGAGGT  
GTACCTCGGCCGGCAGATCTGCAACGTGGTGGCGTGCAGAGGGCGCGGAGCGCAC  
GGAGCGCCACGAGACGCTGGGCCAGTGGCGCAGCCGCCTCGGCGGCTCCGGGTT  
CGCGCCCGTGCACCTGGGCTCCAATGCCTACAAGCAGGCGAGCACGCTGCTGGC  
GCTCTTCGCCGGCGGCGACGGGTACAGGGTGGAGGAGAAGGACGGGTGCCTGAC  
CCTGGGGTGGCATAACGCGCCCGCTCATCGCCACCTCGGCGTGGCGCGTCCGCCG  
GCCGCCGCTCCGTGATCAGGGAGGGGTGGTTGGGGCTTCTGGACGCCGATCAAG  
GCACACGTACGTCCCCTGGCATGGCGCACCTCCCTCGAGCTCGCCGGCACGGGT  
GAAGCTACCGGGGGGATCCACTAATTCTAAAACGGCCCCACCGCGGTGGAATC  
CACCTTTTGTTCCTTTA

09485529.030100

Figure 9b

MKREYQDAGGSGGDMGSSKDKMMAAAAGAGEQEEEDVDELLAALGYKVRSSDM  
ADVAQKLEQLEMAMGMGGVGGAGATADDGFVSHLATDTVHYNPSDLSSWVESML  
SELNAPPAPLPPATPAPRLASTSSTVTSGAAAGAGYFDLPPAVDSSSSTYALKPIPSV  
AAPSADPSTDSAREPKRMRTGGGSTSSSSSSSSSSMDGGRTRSSVVEAAPPATQASAAA  
NGPAVPVVVVDTQEAGIRLVHALLACAEAVQQENFSAAEALVKQIPMLASSQGGAM  
RKVAAAYFGEALARRVYRFRPPPDSSLLDAAFADLLHAHFYESCPYLKFAHFTANQAI  
LEAFAGCRRVHVVDGFIKQGMQWPALLQALALRPGGPPSFRLTGVGPPQPDETDAL  
QQVGWKLAAQFAHTIRVDFQYRGLVAATLADLEPFMLQPEGDDTDDEPEVIAVNSVF  
ELHRLLAQPGALEKVLGTVRAVRPRIVTVVEQEANHNSGTFLDRFTESLHYYSTMF  
SLEGAGAGSGQSTDASPAAGGTDQVMSEVYLGRQICNVVACEGAERTERHETLGQ  
WRSRLGGSGFAPVHLGSNAYKQASTLLALFAGGDGYRVEEKDGCLTLGWHTRPLIA  
TSAWRVAAAAAP

Figure 10

maiz-fin	55	YKVRSSDMAD	115	MLSELNAPPA	174	VAA.PSADPS	234	NGPAVPVVVV	294	AYFGEALARR	354	RRHVVDVFGI	414	HTIRVDFOYR	473	VLGTVRAVRP	532	VLGVVNQKKE	591	VLGVVNQKKE	650	VLGVVNQKKE	709	VLGVVNQKKE	768	VLGVVNQKKE	827	VLGVVNQKKE	886	VLGVVNQKKE	945	VLGVVNQKKE	1004	VLGVVNQKKE	1063	VLGVVNQKKE	1122	VLGVVNQKKE	1181	VLGVVNQKKE	1240	VLGVVNQKKE	1299	VLGVVNQKKE	1358	VLGVVNQKKE	1417	VLGVVNQKKE	1476	VLGVVNQKKE	1535	VLGVVNQKKE	1594	VLGVVNQKKE	1653	VLGVVNQKKE	1712	VLGVVNQKKE	1771	VLGVVNQKKE	1830	VLGVVNQKKE	1889	VLGVVNQKKE	1948	VLGVVNQKKE	2007	VLGVVNQKKE	2066	VLGVVNQKKE	2125	VLGVVNQKKE	2184	VLGVVNQKKE	2243	VLGVVNQKKE	2302	VLGVVNQKKE	2361	VLGVVNQKKE	2420	VLGVVNQKKE	2479	VLGVVNQKKE	2538	VLGVVNQKKE	2597	VLGVVNQKKE	2656	VLGVVNQKKE	2715	VLGVVNQKKE	2774	VLGVVNQKKE	2833	VLGVVNQKKE	2892	VLGVVNQKKE	2951	VLGVVNQKKE	3010	VLGVVNQKKE	3069	VLGVVNQKKE	3128	VLGVVNQKKE	3187	VLGVVNQKKE	3246	VLGVVNQKKE	3305	VLGVVNQKKE	3364	VLGVVNQKKE	3423	VLGVVNQKKE	3482	VLGVVNQKKE	3541	VLGVVNQKKE	3600	VLGVVNQKKE	3659	VLGVVNQKKE	3718	VLGVVNQKKE	3777	VLGVVNQKKE	3836	VLGVVNQKKE	3895	VLGVVNQKKE	3954	VLGVVNQKKE	4013	VLGVVNQKKE	4072	VLGVVNQKKE	4131	VLGVVNQKKE	4190	VLGVVNQKKE	4249	VLGVVNQKKE	4308	VLGVVNQKKE	4367	VLGVVNQKKE	4426	VLGVVNQKKE	4485	VLGVVNQKKE	4544	VLGVVNQKKE	4603	VLGVVNQKKE	4662	VLGVVNQKKE	4721	VLGVVNQKKE	4780	VLGVVNQKKE	4839	VLGVVNQKKE	4898	VLGVVNQKKE	4957	VLGVVNQKKE	5016	VLGVVNQKKE	5075	VLGVVNQKKE	5134	VLGVVNQKKE	5193	VLGVVNQKKE	5252	VLGVVNQKKE	5311	VLGVVNQKKE	5370	VLGVVNQKKE	5429	VLGVVNQKKE	5488	VLGVVNQKKE	5547	VLGVVNQKKE	5606	VLGVVNQKKE	5665	VLGVVNQKKE	5724	VLGVVNQKKE	5783	VLGVVNQKKE	5842	VLGVVNQKKE	5901	VLGVVNQKKE	5960	VLGVVNQKKE	6019	VLGVVNQKKE	6078	VLGVVNQKKE	6137	VLGVVNQKKE	6196	VLGVVNQKKE	6255	VLGVVNQKKE	6314	VLGVVNQKKE	6373	VLGVVNQKKE	6432	VLGVVNQKKE	6491	VLGVVNQKKE	6550	VLGVVNQKKE	6609	VLGVVNQKKE	6668	VLGVVNQKKE	6727	VLGVVNQKKE	6786	VLGVVNQKKE	6845	VLGVVNQKKE	6904	VLGVVNQKKE	6963	VLGVVNQKKE	7022	VLGVVNQKKE	7081	VLGVVNQKKE	7140	VLGVVNQKKE	7199	VLGVVNQKKE	7258	VLGVVNQKKE	7317	VLGVVNQKKE	7376	VLGVVNQKKE	7435	VLGVVNQKKE	7494	VLGVVNQKKE	7553	VLGVVNQKKE	7612	VLGVVNQKKE	7671	VLGVVNQKKE	7730	VLGVVNQKKE	7789	VLGVVNQKKE	7848	VLGVVNQKKE	7907	VLGVVNQKKE	7966	VLGVVNQKKE	8025	VLGVVNQKKE	8084	VLGVVNQKKE	8143	VLGVVNQKKE	8202	VLGVVNQKKE	8261	VLGVVNQKKE	8320	VLGVVNQKKE	8379	VLGVVNQKKE	8438	VLGVVNQKKE	8497	VLGVVNQKKE	8556	VLGVVNQKKE	8615	VLGVVNQKKE	8674	VLGVVNQKKE	8733	VLGVVNQKKE	8792	VLGVVNQKKE	8851	VLGVVNQKKE	8910	VLGVVNQKKE	8969	VLGVVNQKKE	9028	VLGVVNQKKE	9087	VLGVVNQKKE	9146	VLGVVNQKKE	9205	VLGVVNQKKE	9264	VLGVVNQKKE	9323	VLGVVNQKKE	9382	VLGVVNQKKE	9441	VLGVVNQKKE	9500	VLGVVNQKKE	9559	VLGVVNQKKE	9618	VLGVVNQKKE	9677	VLGVVNQKKE	9736	VLGVVNQKKE	9795	VLGVVNQKKE	9854	VLGVVNQKKE	9913	VLGVVNQKKE	9972	VLGVVNQKKE	10031	VLGVVNQKKE	10090	VLGVVNQKKE	10149	VLGVVNQKKE	10208	VLGVVNQKKE	10267	VLGVVNQKKE	10326	VLGVVNQKKE	10385	VLGVVNQKKE	10444	VLGVVNQKKE	10503	VLGVVNQKKE	10562	VLGVVNQKKE	10621	VLGVVNQKKE	10680	VLGVVNQKKE	10739	VLGVVNQKKE	10798	VLGVVNQKKE	10857	VLGVVNQKKE	10916	VLGVVNQKKE	10975	VLGVVNQKKE	11034	VLGVVNQKKE	11093	VLGVVNQKKE	11152	VLGVVNQKKE	11211	VLGVVNQKKE	11270	VLGVVNQKKE	11329	VLGVVNQKKE	11388	VLGVVNQKKE	11447	VLGVVNQKKE	11506	VLGVVNQKKE	11565	VLGVVNQKKE	11624	VLGVVNQKKE	11683	VLGVVNQKKE	11742	VLGVVNQKKE	11801	VLGVVNQKKE	11860	VLGVVNQKKE	11919	VLGVVNQKKE	11978	VLGVVNQKKE	1203	VLGVVNQKKE
maiz-fin	55	YKVRSSDMAD	115	MLSELNAPPA	174	VAA.PSADPS	234	NGPAVPVVVV	294	AYFGEALARR	354	RRHVVDVFGI	414	HTIRVDFOYR	473	VLGTVRAVRP	532	VLGVVNQKKE	591	VLGVVNQKKE	650	VLGVVNQKKE	709	VLGVVNQKKE	768	VLGVVNQKKE	827	VLGVVNQKKE	886	VLGVVNQKKE	945	VLGVVNQKKE	1004	VLGVVNQKKE	1063	VLGVVNQKKE	1122	VLGVVNQKKE	1181	VLGVVNQKKE	1240	VLGVVNQKKE	1299	VLGVVNQKKE	1358	VLGVVNQKKE	1417	VLGVVNQKKE	1476	VLGVVNQKKE	1535	VLGVVNQKKE	1594	VLGVVNQKKE	1653	VLGVVNQKKE	1712	VLGVVNQKKE	1771	VLGVVNQKKE	1830	VLGVVNQKKE	1889	VLGVVNQKKE	1948	VLGVVNQKKE	2007	VLGVVNQKKE	2066	VLGVVNQKKE	2125	VLGVVNQKKE	2184	VLGVVNQKKE	2243	VLGVVNQKKE	2302	VLGVVNQKKE	2361	VLGVVNQKKE	2420	VLGVVNQKKE	2479	VLGVVNQKKE	2538	VLGVVNQKKE	2597	VLGVVNQKKE	2656	VLGVVNQKKE	2715	VLGVVNQKKE	2774	VLGVVNQKKE	2833	VLGVVNQKKE	2892	VLGVVNQKKE	2951	VLGVVNQKKE	3010	VLGVVNQKKE	3069	VLGVVNQKKE	3128	VLGVVNQKKE	3187	VLGVVNQKKE	3246	VLGVVNQKKE	3305	VLGVVNQKKE	3364	VLGVVNQKKE	3423	VLGVVNQKKE	3482	VLGVVNQKKE	3541	VLGVVNQKKE	3600	VLGVVNQKKE	3659	VLGVVNQKKE	3718	VLGVVNQKKE	3777	VLGVVNQKKE	3836	VLGVVNQKKE	3895	VLGVVNQKKE	3954	VLGVVNQKKE	4013	VLGVVNQKKE	4072	VLGVVNQKKE	4131	VLGVVNQKKE	4190	VLGVVNQKKE	4249	VLGVVNQKKE	4308	VLGVVNQKKE	4367	VLGVVNQKKE	4426	VLGVVNQKKE	4485	VLGVVNQKKE	4544	VLGVVNQKKE	4603	VLGVVNQKKE	4662	VLGVVNQKKE	4721	VLGVVNQKKE	4780	VLGVVNQKKE	4839	VLGVVNQKKE	4898	VLGVVNQKKE	4957	VLGVVNQKKE	5016	VLGVVNQKKE	5075	VLGVVNQKKE	5134	VLGVVNQKKE	5193	VLGVVNQKKE	5252	VLGVVNQKKE	5311	VLGVVNQKKE	5370	VLGVVNQKKE	5429	VLGVVNQKKE	5488	VLGVVNQKKE	5547	VLGVVNQKKE	5606	VLGVVNQKKE	5665	VLGVVNQKKE	5724	VLGVVNQKKE	5783	VLGVVNQKKE	5842	VLGVVNQKKE	5901	VLGVVNQKKE	5960	VLGVVNQKKE	6019	VLGVVNQKKE	6078	VLGVVNQKKE	6137	VLGVVNQKKE	6196	VLGVVNQKKE	6255	VLGVVNQKKE	6314	VLGVVNQKKE	6373	VLGVVNQKKE	6432	VLGVVNQKKE	6491	VLGVVNQKKE	6550	VLGVVNQKKE	6609	VLGVVNQKKE	6668	VLGVVNQKKE	6727	VLGVVNQKKE	6786	VLGVVNQKKE	6845	VLGVVNQKKE	6904	VLGVVNQKKE	6963	VLGVVNQKKE	7022	VLGVVNQKKE	7081	VLGVVNQKKE	7140	VLGVVNQKKE	7199	VLGVVNQKKE	7258	VLGVVNQKKE	7317	VLGVVNQKKE	7376	VLGVVNQKKE	7435	VLGVVNQKKE	7494	VLGVVNQKKE	7553	VLGVVNQKKE	7612	VLGVVNQKKE	7671	VLGVVNQKKE	7730	VLGVVNQKKE	7789	VLGVVNQKKE	7848	VLGVVNQKKE	7907	VLGVVNQKKE	7966	VLGVVNQKKE	8025	VLGVVNQKKE	8084	VLGVVNQKKE	8143	VLGVVNQKKE	8202	VLGVVNQKKE	8261	VLGVVNQKKE	8320	VLGVVNQKKE	8379	VLGVVNQKKE	8438	VLGVVNQKKE	8497	VLGVVNQKKE	8556	VLGVVNQKKE	8615	VLGVVNQKKE	8674	VLGVVNQKKE	8733	VLGVVNQKKE	8792	VLGVVNQKKE	8851	VLGVVNQKKE	8910	VLGVVNQKKE	8969	VLGVVNQKKE	9028	VLGVVNQKKE	9087	VLGVVNQKKE	9146	VLGVVNQKKE	9205	VLGVVNQKKE	9264	VLGVVNQKKE	9323	VLGVVNQKKE	9382	VLGVVNQKKE	9441	VLGVVNQKKE	9500	VLGVVNQKKE	9559	VLGVVNQKKE	9618	VLGVVNQKKE	9677	VLGVVNQKKE	9736	VLGVVNQKKE	9795	VLGVVNQKKE	9854	VLGVVNQKKE	9913	VLGVVNQKKE	9972	VLGVVNQKKE	10031	VLGVVNQKKE	10090	VLGVVNQKKE	10149	VLGVVNQKKE	10208	VLGVVNQKKE	10267	VLGVVNQKKE	10326	VLGVVNQKKE	10385	VLGVVNQKKE	10444	VLGVVNQKKE	10503	VLGVVNQKKE	10562	VLGVVNQKKE	10621	VLGVVNQKKE	10680	VLGVVNQKKE	10739	VLGVVNQKKE	10798	VLGVVNQKKE	10857	VLGVVNQKKE	10916	VLGVVNQKKE	10975	VLGVVNQKKE	11034	VLGVVNQKKE	11093	VLGVVNQKKE	11152	VLGVVNQKKE	11211	VLGVVNQKKE	11270	VLGVVNQKKE	11329	VLGVVNQKKE	11388	VLGVVNQKKE	11447	VLGVVNQKKE	11506	VLGVVNQKKE	11565	VLGVVNQKKE	11624	VLGVVNQKKE	11683	VLGVVNQKKE	11742	VLGVVNQKKE	11801	VLGVVNQKKE	11860	VLGVVNQKKE	11919	VLGVVNQKKE	11978	VLGVVNQKKE	1203	VLGVVNQKKE
maiz-fin	55	YKVRSSDMAD	115	MLSELNAPPA	174	VAA.PSADPS	234	NGPAVPVVVV	294	AYFGEALARR	354	RRHVVDVFGI	414	HTIRVDFOYR	473	VLGTVRAVRP	532	VLGVVNQKKE	591	VLGVVNQKKE	650	VLGVVNQKKE	709	VLGVVNQKKE	768	VLGVVNQKKE	827	VLGVVNQKKE	886	VLGVVNQKKE	945	VLGVVNQKKE	1004	VLGVVNQKKE	1063	VLGVVNQKKE	1122	VLGVVNQKKE	1181	VLGVVNQKKE	1240	VLGVVNQKKE	1299	VLGVVNQKKE	1358	VLGVVNQKKE	1417	VLGVVNQKKE	1476	VLGVVNQKKE	1535	VLGVVNQKKE	1594	VLGVVNQKKE	1653	VLGVVNQKKE	1712	VLGVVNQKKE	1771	VLGVVNQKKE	1830	VLGVVNQKKE	1889	VLGVVNQKKE	1948	VLGVVNQKKE	2007	VLGVVNQKKE	2066	VLGVVNQKKE	2125	VLGVVNQKKE	2184	VLGVVNQKKE	2243	VLGVVNQKKE	2302	VLGVVNQKKE	2361	VLGVVNQKKE	2420	VLGVVNQKKE	2479	VLGVVNQKKE	2538	VLGVVNQKKE	2597	VLGVVNQKKE	2656	VLGVVNQKKE	2715	VLGVVNQKKE	2774	VLGVVNQKKE	2833	VLGVVNQKKE	2892	VLGVVNQKKE	2951	VLGVVNQKKE	3010	VLGVVNQKKE	3069	VLGVVNQKKE	3128	VLGVVNQKKE	3187	VLGVVNQKKE	3246	VLGVVNQKKE	3305	VLGVVNQKKE	3364	VLGVVNQKKE	3423	VLGVVNQKKE	3482	VLGVVNQKKE	3541	VLGVVNQKKE	3600	VLGVVNQKKE	3659	VLGVVNQKKE	3718	VLGVVNQKKE	3777	VLGVVNQKKE	3836	VLGVVNQKKE	3895	VLGVVNQKKE	3954	VLGVVNQKKE	4013	VLGVVNQKKE	4072	VLGVVNQKKE	4131	VLGVVNQKKE	4190	VLGVVNQKKE	4249	VLGVVNQKKE	4308	VLGVVNQKKE	4367	VLGVVNQKKE	4426	VLGVVNQKKE	4485	VLGVVNQKKE	4544	VLGVVNQKKE	4603	VLGVVNQKKE	4662	VLGVVNQKKE	4721	VLGVVNQKKE	4780	VLGVVNQKKE	4839	VLGVVNQKKE	4898	VLGVVNQKKE	4957	VLGVVNQKKE	5016	VLGVVNQKKE	5075	VLGVVNQKKE	5134	VLGVVNQKKE	5193	VLGVVNQKKE	5252	VLGVVNQKKE	5311	VLGVVNQKKE	5370	VLGVVNQKKE	5429	VLGVVNQKKE	5488	VLGVVNQKKE	5547	VLGVVNQKKE	5606	VLGVVNQKKE	5665	VLGVVNQKKE	5724	VLGVVNQKKE	5783	VLGVVNQKKE	5842	VLGVVNQKKE	5901	VLGVVNQKKE	5960	VLGVVNQKKE	6019	VLGVVNQKKE	6078	VLGVVNQKKE	6137	VLGVVNQKKE	6196	VLGVVNQKKE	6255	VLGVVNQKKE	6314	VLGVVNQKKE	6373	VLGVVNQKKE	6432	VLGVVNQKKE	6491	VLGVVNQKKE	6550	VLGVVNQKKE	6609	VLGVVNQKKE	6668	VLGVVNQKKE	6727	VLGVVNQKKE	6786	VLGVVNQKKE	6845	VLGVVNQKKE	6904	VLGVVNQKKE	6963	VLGVVNQKKE	7022	VLGVVNQKKE	7081	VLGVVNQKKE	7140	VLGVVNQKKE	7199	VLGVVNQKKE	7258	VLGVVNQKKE	7317	VLGVVNQKKE	7376	VLGVVNQKKE	7435	VLGVVNQKKE	7494	VLGVVNQKKE	7553	VLGVVNQKKE	7612	VLGVVNQKKE	7671	VLGVVNQKKE	7730	VLGVVNQKKE	7789	VLGVVNQKKE	7848	VLGVVNQKKE	7907	VLGVVNQKKE	7966	VLGVVNQKKE	8025	VLGVVNQKKE	8084	VLGVVNQKKE	8143	VLGVVNQKKE	8202	VLGVVNQKKE	8261	VLGVVNQKKE	8320	VLGVVNQKKE	8379	VLGVVNQKKE	8438	VLGVVNQKKE	8497	VLGVVNQKKE	8556	VLGVVNQKKE	8615	VLGVVNQKKE	8674	VLGVVNQKKE	8733	VLGVVNQKKE	8792	VLGVVNQKKE	8851	VLGVVNQKKE	8910	VLGVVNQKKE	8969	VLGVVNQKKE	9028	VLGVVNQKKE	9087	VLGVVNQKKE	9146	VLGVVNQKKE	9205	VLGVVNQKKE	9264	VLGVVNQKKE	9323	VLGVVNQKKE	9382	VLGVVNQKKE	9441	VLGVVNQKKE	9500	VLGVVNQKKE	9559	VLGVVNQKKE	9618	VLGVVNQKKE	9677	VLGVVNQKKE	9736	VLGVVNQKKE	9795	VLGVVNQKKE	9854	VLGVVNQKKE	9913	VLGVVNQKKE	9972	VLGVVNQKKE	10031	VLGVVNQKKE	10090	VLGVVNQKKE	10149	VLGVVNQKKE	10208	VLGVVNQKKE	10267	VLGVVNQKKE	10326	VLGVVNQKKE	10385	VLGVVNQKKE	10444	VLGVVNQKKE	10503	VLGVVNQKKE	10562	VLGVVNQKKE	10621	VLGVVNQKKE	10680	VLGVVNQKKE	10739	VLGVVNQKKE	10798	VLGVVNQKKE	10857	VLGVVNQKKE	10916	VLGVVNQKKE	10975	VLGVVNQKKE	11034	VLGVVNQKKE	11093	VLGVVNQKKE	11152	VLGVVNQKKE	11211	VLGVVNQKKE	11270	VLGVVNQKKE	11329	VLGVVNQKKE	11388	VLGVVNQKKE	11447	VLGVVNQKKE	11506	VLGVVNQKKE	11565	VLGVVNQKKE	11624	VLGVVNQKKE	11683	VLGVVNQKKE	11742	VLGVVNQKKE	11801	VLGVVNQKKE	11860	VLGVVNQKKE	11919	VLGVVNQKKE	11978	VLGVVNQKKE	1203	VLGVVNQKKE
maiz-fin	55	YKVRSSDMAD	115	MLSELNAPPA	174	VAA.PSADPS	2																																																																																																																																																																																																																																																																																																																																																																																																																	

20/22

Figure 10 (Continued)

maiz-fin	R I V T V V E Q E A	N H N S G T F L D R	F T E S L H Y Y S T	M F D S L E G A G A	G S G Q S T D A S P	A . . . . . A A G G T	529
rht-fina	R I V T V V E Q E A	N H N S G T F L D R	F T E S L H Y Y S T	M F D S L E G G S S	G G G P S E V S S G	A A A A P A A A G T	525
rice-fin	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	256
gai	E I F T V V E Q E S	N H N S P I F L D R	F T E S L H Y Y S T	M F D S L E G V P S	G Q . . . . .	. . . . .	434
maiz-fin	D Q V M S E V Y L G	R Q I C N V V A C E	G A E R T E R H E T	L G Q W R S R L G G	S G F A P V H L G S	N A Y K Q A S T L L	589
rht-fina	D Q V M S E V Y L G	R Q I C N V V A C E	G A E R T E R H E T	L G Q W R N R L G N	A G F E T V H L G S	N A Y K Q A S T L L	585
rice-fin	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	256
gai	D K V M S E V Y L G	K O I C N V V A C D	G P P R V E R H E T	L S Q W R N R E G S	A G F A A H I G S	N A Y K Q A S M L L	494
maiz-fin	A L F A G G D G Y R	V E E K D G G C L T L	G W H T R P L I A T	S A W R V A A A A A	P . . . . .	. . . . .	630
rht-fina	A L F A G G D G Y R	V E E K D G G C L T L	G W H T R P L I A T	S A W R L A G P . .	. . . . .	. . . . .	623
rice-fin	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	256
gai	A L F N G G G G Y R	V E E S D G G C L M L	G W H T R P L I A T	S A W K L S T N . .	. . . . .	. . . . .	532

Figure 11a

TACCAAGACGCCGGCGGGAGTGGCGGCGACATGGGCTCCTCCAAGGACAAGATG  
ATGGCGGCGGCGGCGGGAGCAGGGGAACAGGAGGAGGAGGACGTGGATGAGCT  
GCTGGCCGCGCTCGGGTACAAGGTGCGTTCGTCGGATATGGCGGGGCTGGAGCA  
GCTCGAGATGGCCATGGGGATGGGCGGCGTGGGCGGCGCCGGCGCTACCGCTGA  
TGACGGGTTCGTGTCGCACCTCGCCACGGACACCGTGCACTACAATCCCTCCGAC  
CTGTCGTCCTGGGTCGAGAGCATGCTGTCCGA

Figure 11b

YQDAGGSGGDMGSSKDKMMAAAAGAGEQEEEDVDELLAALGYKVRSSDMAGLEQ  
LEMAMGMGGVGGAGATADDGFVSHLATDTVHYNPSDLSSWVESMLS

Figure 11c

TCCTCCAAGGACAAGATGATGGCGGCGGCGGCGGGAGCAGGGGAACAGGAGGA  
GGAGGACGTGGATGAGCTGCTGGCCGCGCTCGGGTACAAGGTGCGTTCGTCGGA  
TATGGCGGACGTCGCGCAGAAGCTGGAGCAGCTCGAGATGGCCATGGGGATGGG  
CGGCGTGGGCGGCGCCGGCGCTACCGCTGATGACGGGTTCGTGTCGCACCTGTCG  
TCCTGGGTCGAGAGCATGCTGTCCGAGCTCAACGCGCCCCCAGCGCCGCTCCCGC  
CCGCGACGCGCGCCCAAGGCTCGCGTCCACATCGTCCACCGTCACAAGTGGCGC  
CGCCGCGGTGCTGGCTACTTCGATCTCCCGCCCGCCGTGGACTC

Figure 11d

SSKDKMMAAAAGAGEQEEEDVDELLAALGYKVRSSDMADVAQKLEQLEMAMGM  
GGVGGAGATADDGFVSHLSSWVESMLSELNAPPAPLPPATPAPRLASTSSTVTSGAA  
AGAGYFDLPPAVD

22/22

Figure 12a

GCGGCGCTCGGGTACAAGGTGCGCGCCTCCGACATGGCGGACGTGGCGCAGAAG  
CTGGAGCAGCTCGAGATGGCCATGGGGATGGGCGGGCGTGGGCGCCGGCGCCGCC  
CCCGACGACAGCTTCGCCACCCACCTCGCCACGGACACCGTGCACTACAACCCCA  
CCGACCTGTCGTCTTGGGTCGAGAGCATGCTGTCGGAGCTCAACGCCTCCACCTC  
CTCCACCGTCACGGGCAGCGGCGGCTACTTCGATCTCCCGCCCTCCGTCGACTCC  
TCCAGCAGCATCTACGCGCTGCGGCCGATCCCCTCCCCGGCCGGCGCGACGGCGC  
CGGCCGACCTGTCCGCCGACTCCGTGCGGGGATCCCAAGCGGATGCGCACTGGCG  
GGAGCAGCACCTCGTCGTCATCCTCCTCCTCGTC

Figure 12b

AALGYKVRASDMADVAQKLEQLEMAMGMGGVGAGAAPDDSFATHLATDTVHYN  
PTDLSSWVESMLSELNASTSSTVTGSGGYFDLPPSVDSSSSIYALRPIPSAGATAPAD  
LSADSVRDPKRMRTGGSSTSSSSSSS

09485529-030100